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APPLICATION NO.	LICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/696,353 10/29/2003		10/29/2003	Masaru Sakuma	AMANO A372	6725
27667	27667 7590 06/02/2006			EXAMINER	
HAYES, SOLOWAY P.C.				JIMENEZ, MARC QUEMUEL	
3450 E. SUNRISE DRIVE, SUITE 140 TUCSON, AZ 85718				ART UNIT	PAPER NUMBER
				3726	
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Please find below and/or attached an Office communication concerning this application or proceeding.

DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 1-18, drawn to a circular-shaped metal structure, classified in class 492, subclass 58.
 - II. Claims 19-24, drawn to a method of fabricating a circular-shaped metal structure, classified in class 29, subclass 895.
 - III. Claims 25-26, drawn to a photosensitive drum, classified in class 399, subclass 176.
 - IV. Claims 27-28, drawn to a fixing belt, classified in class 399, subclass 162.
- V. Claims 29-30, drawn to a roller assembly, classified in class 399, subclass 130. The inventions are distinct, each from the other because of the following reasons:
- 2. Inventions I and II are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product could be made without the need to rotate a pipe.
- 3. Inventions I and III are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product, and the species are patentably distinct (MPEP § 806.05(j)). In the instant case, the intermediate product is deemed to be useful as a

roller other than a photosensitive drum or could be used to make a fixing belt and the inventions are deemed patentably distinct because there is nothing on this record to show them to be obvious variants.

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- Inventions I and IV are related as mutually exclusive species in an intermediate-final 4. product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product, and the species are patentably distinct (MPEP § 806.05(j)). In the instant case, the intermediate product is deemed to be useful as a roller rather than a fixing belt and the inventions are deemed patentably distinct because there is nothing on this record to show them to be obvious variants.
- Inventions I and V are related as mutually exclusive species in an intermediate-final 5. product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product, and the species are patentably distinct (MPEP § 806.05(j)). In the instant case, the intermediate product is deemed to be useful as a fixing belt rather than for making a roller assembly and the inventions are deemed patentably distinct because there is nothing on this record to show them to be obvious variants.
- Inventions II and III are related as process of making and product made. The inventions 6. are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product could be made without the need to rotate a pipe or the process could be used to make a fixing belt rather than a drum.

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7. Inventions II and IV are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process could be made to make a drum rather than a fixing belt.

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- 8. Inventions II and V are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make another and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process could be used to make a fixing belt.
- Inventions III and IV are directed to related products. The related inventions are distinct if the inventions as claimed do not overlap in scope, i.e., are mutually exclusive; the inventions as claimed are not obvious variants; and the inventions as claimed are either not capable of use together or can have a materially different design, mode of operation, function, or effect. See MPEP § 806.05(j). In the instant case, a photosensitive drum has different design, mode of operation, function and effect from a fixing belt. For example, a drum is cylindrical whereas a fixing belt is oblong and oval shaped.
- 10. Inventions III and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as

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claimed because the combination does not require photosensitivity. The subcombination has separate utility such as for use as a stand alone roller without at least two rollers.

- 11. Inventions IV and V are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require use in an electrophotographic printer. The subcombination has separate utility such as for use in a combination that does not require at least two rollers directed in parallel to one another.
- 12. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art in view of their different classification, restriction for examination purposes as indicated is proper.
- Because these inventions are independent or distinct for the reasons given above and the 13. inventions require a different field of search (see MPEP § 808.02), restriction for examination purposes as indicated is proper.
- 14. Because these inventions are independent or distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.
- 15. This application contains claims directed to the following patentably distinct species: Species A: a film composed of one of (a) silicon and fluorocarbon resin and (b) copper

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being coated on a surface of said circular-shaped metal structure (as recited in claims 1, 19, 25, 27, 29).

Species B: said circular-shaped metal structure being comprised of a plurality of metals different from one another and integrally rolled (as recited in claims 7, 21, 26, 28, 30).

The species are independent or distinct because species A is drawn to a film composed of one of (a) silicon and fluorocarbon resin and (b) copper being coated on a surface of said circular-shaped metal structure and species B is drawn to said circular-shaped metal structure being comprised of a plurality of metals different from one another and integrally rolled.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, there are no claims that are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which depend from or otherwise require all the limitations of an allowable generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

16. Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement be traversed (37) CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

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The election of an invention or species may be made with or without traverse. To reserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated

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as an election without traverse.

Should applicant traverse on the ground that the inventions or species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the inventions or species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C.103(a) of the other invention.

- 17. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 18. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Marc Jimenez whose telephone number is (571) 272-4530. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bryant can be reached on (571) 272-4526. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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